

**San Joaquin Valley Agricultural Sciences Center**  
**Computing Standards**

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**Standards Background:**

Standards promote supportability and cost efficiency. All large businesses set standards. Without standards, chaos reigns and the total cost of ownership rises out of control.

**Desktop Computer Standards**

Processors*	Pentium 4
Operating System	Windows XP Professional with NO media
Memory	512Mb or 1Gb
Brand and Model	Dell Optiplex GX-280
Chassis	Mini Tower recommended
Monitor	17" minimum. 17" Dell UltraSharp recommended
Video	DVI or VGA. DVI recommended if using flat screen.
Hard Drive	80Gb minimum
Floppy	1.44Mb 3.5" Floppy Drive
Mouse	USB Optical
Audio	Integrated audio
Speakers	Dell AS500 Sound Bar if Dell Ultrasharp ordered. Otherwise, Dell A215 speakers.
Wireless	None
Modem	None
CD/DVD	Ability to burn CD.
Warranty	3 year, no CompleteCare, no Gold Technical Support, no same day on-site
Microsoft Office	GSA Office 2003 Professional with NO media

\* Celeron processor is NOT allowed under any circumstances.

## Laptop Computer Standards<sup>1</sup>

Processors <sup>2</sup>	Pentium 4, Pentium M or Centrino
Operating System	Windows XP Professional with NO media
Memory	512Mb, 768Mb or 1Gb
Brand and Model	Dell Latitude (any model)
Hard Drive	60Gb minimum
Mouse	USB Optical
Audio	Integrated audio
Speakers	None
Wireless	802.11b/g
Modem	Internal 56K
Warranty	3 year WITH CompleteCare, no Gold Technical Support
Microsoft Office <sup>3</sup>	If primary computer then order GSA Office 2003 Professional with NO media. If secondary computer, then do NOT order office.
Docking <sup>4</sup>	If primary computer, order D/Port Advanced Port Replicator and D-Family Monitor Stand
Monitor <sup>4</sup>	If primary computer, 17" minimum. Otherwise, no monitor. 17" Dell UltraSharp recommended.
Keyboard <sup>4</sup>	If primary computer, USB Keyboard.
Carrying Case	Nylon or Leather. Nylon recommended.

<sup>1</sup> Laptops are far more expensive than desktops. They are easily broken, easy to steal, difficult to expand, and they have less performance than desktops. They are only recommended when you travel frequently or need computing in the field. Depending on the model ordered, two desktops can be purchased for the price of one laptop.

<sup>2</sup> The Celeron processor is NOT allowed under any circumstances. They represent a very poor value.

<sup>3</sup> If you already have a desktop, Microsoft allows you to use Microsoft Office on your laptop without purchasing it again.

<sup>4</sup> If you do not have a desktop and plan on using your laptop as your primary computer, you will need to purchase a docking station, monitor, and keyboard for ergonomic and usability reasons.

**Wireless Standards**

- 802.11 b/g
- WPA with TKIP
- 802.11x with computer and user certificates

**Wireless Capability for Computers**

- Laptop with Centrino or other built-in wireless 802.11b/g capabilities (preferred)
- D-Link DWL-G132 USB Adapter – Uses any USB slot
- D-Link DWL-G650 Cardbus Adapter – Uses a card slot on laptop
- D-Link DWL-G520 PCI Adapter – Uses internal card slot on desktop

**Wireless Routers and Access Points**

- D-Link DWL-2100AP Access Point (preferred)
- D-Link DI-624 Router
- D-Link DPG-2000W Presentation Gateway – Wireless for projectors or monitors
- D-Link ANT24-0400 Omni-Directional Indoor Antenna

## Software Standards

This software is installed on all computers.

Operating Systems	Windows 2000 Professional SP4 Windows XP Professional SP2
Antivirus	Symantec Antivirus 9.0 Enterprise
Anti-spyware	PestPatrol Corporate V 5.0
Email	Outlook 2002 Outlook 2003
Office	Office Professional 2000 Office Professional XP Office Professional 2003
Other	Adobe Reader v6 Computer Support Tools v1.1 Java .NET Framework v1.1 Oracle JInitiator 1.3.1.17 UltraVNC v1.0 Windows Media Player 10 (XP only)
USDA Software	CATS CATS Database Source InForms